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**Addendum #1**  
**Solicitation # 20-11AA**  
**Project: Hot Water Distribution System Balance of Plant Electrical Upgrades at Duluth Energy Systems**

This addendum serves to notify all bidders of the following changes to the solicitation documents:

Questions and Responses:

1. Drawing E01 shows new ground rods, new connections to water lines, new connections to building steel. There are already existing connections to these that are being tied back to GB01. Please clarify if these are really required.
  - A. **Ground bus bar GB-01 is a new bus bar to be located near the new electrical service at level 1. This bus bar should be tied to the existing water service and building steel. New ground rods should be provided for the new service. These connections are required. Any existing grounding electrode connections that may exist at the existing electrical service on ground level must also be connected to bus bar EGB-LL. Any physical constraints making it impractical or impossible to make these connections will need to be addressed on a case by case basis during construction.**
2. The Switch Board designations (A-SSB1-2, A-SSB1-1) on E302 do not match Switch Boards on Riser/One-Line on E010.
  - A. **Refer to revised drawings for clarification.**
3. The Switch Board designation (A-NBLLS-1) does not match Switch Boards on Riser/One-Line on E010.
  - A. **Refer to revised drawings for clarification.**
4. Please see attached marked up drawing E010 for seven issues.
  - A. **Refer to revised drawings for clarification.**
5. The drawings show the new service conductors (duct bank) coming to the corner of the building (grids A & 10), up the building and into the first floor where Switchboards A-SSB1-1 & A-SSB-2 are located. The one line shows the new service conductors feeding new Switch Board A-NSB1-1 which is located on Ground level in a different area of the plant. Please clarify.

- A. The service conductors are to route to the corner of the building near (A & 10), and turn up at the exterior of the building and route up to first level. The service conductors should enter the building at first level and terminate at new switchboard A-NSB1-1 near grid lines A and 10. Plan detail 2/E302 has been revised to indicate first level. The equipment names have been updated on the floor plans in the addendum.**

Changes/Clarifications to Drawings and Specifications:

**Sheet E000 –**

1. Added branch circuit for mechanical control power.

**Sheet E010 –**

1. Added space for future power factor correction capacitor in switchboard A-NSB1-1.
2. Added dry contact to meter in switchboard A-SSB1-2. Added raceway and control cabling to mechanical PLC.
3. Updated keynotes.
4. Removed HHWP-1 VFD by-pass. Added 400A manual transfer switch to support HHWP-1.
5. Removed feeder between panels A-SLD1-1 and MAINT. SHOP M1.
6. Added manufacturer and models numbers of existing equipment.
7. Added note regarding new and refurbished circuit breakers in existing equipment.

**Sheet E011 –**

1. Update grounding diagram to reflect existing service.
2. Updated grounding diagram to reflect connections to existing electrodes.

**Sheet E301 –**

1. Changed ground bus bar EGB-LL to from existing to new.
2. Revised equipment names to match one-line diagrams.
3. Added raceway and Ethernet cable connection to HHWP PLC.

**Sheet E302 –**

1. Revised equipment names to match one-line diagrams.

**Sheet E303 –**

1. Added manual transfer switch serving HHWP-1.

**Sheet E510 –**

1. Added circuit for mechanical controls.
2. Added photo of existing MCC#2.

Specifications

**Section 262413-** Removed all references to seismic and sustainable design requirements. Changed MCB to be electrically operated. Added control power requirement. Added circuit

breaker tools, removal apparatus, remote racking device, and remote operator pendant.

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the [www.bidexpress.com](http://www.bidexpress.com) solicitation.

**Posted: 05/06/2020**